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APPLICATION 1	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/613,932		07/01/2003	Takahiko Tanahashi	Y-218	4638
802	7590	06/29/2006		EXAM	INER
DELLE'	TT & WA	LTERS	DESTA, ELIAS		
P. O. BOX 82788 PORTLAND, OR 97282-0788				ART UNIT	PAPER NUMBER
TORIL	101121112, 011 7/202 0/00			2857	

DATE MAILED: 06/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.



	Application No.	Applicant(s)	
Supplemental	10/613,932	TANAHASHI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Elias Desta	2857	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIG	OR REMAINS) CLOSED ir or other appropriate commu GHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS	
1. X This communication is responsive to <u>amendment to descrip</u>	tion of drawing filed on Ma	<u>rch 2, 2006</u> .	
2. 🔀 The allowed claim(s) is/are <u>1-13</u> .			
 Acknowledgment is made of a claim for foreign priority un a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application	on No	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements	
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 			
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) including changes required by the Notice of Draftsperso	on's Patent Drawing Reviev	v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on tl ne header according to 37 CF	he drawings in the front (not the back) of R 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of In	formal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	ummary (PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No. <i>i</i> 8), 7. ⊠ Examiner's	/Mail Date Amendment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9.		

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Supplemental Action

1. The amendment to the brief description of the drawings was received on March 2, 2006. The brief descriptions are now consistent with Figures 4F, 7D, 8D and 12C respectively.

Allowance Restated

2. <u>Claims 1-13</u> are allowed. The following is an examiner's statement of reasons for allowance:

In reference to claims 1 and 26: Weiler et al. (IEEE Article, 'Hardware-Software-Balance Re-sampling for the Interactive Visualization of Unstructured Grids', hereon Weiler teaches a method of re-sampling unstructured volume data on Cartesian grids for achieving interactive visualization (see Weiler, page 199, section 1 Introduction). The method further includes the re-sampling of the unstructured grid into a single Cartesian grid of predefined resolution. The designation grid is considered on a slice-by-slice basis (see Weiler, page 200, section 3, 'Hardware-supported Slicing').

Unlike <u>Weiler</u>, he claimed invention uses a finite volume method using a hybrid-grid adaptation for analyzing physical quantities data of continuum medium. The method includes:

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➤ An initial grid memory containing the physical measurement data using free combination of tetrahedral, hexahedral and pentahedral cells;

- ➤ A grid dividing adaptation means for dividing a cell into plural cells; and
- ➤ A grid deleting means for recovering the former undivided cell by deleting divided cells.

Whereby providing a modified grid data adapted for more efficient calculation and memory usage in analysis of physical quantities data of the continuum medium.

The remaining claims are dependent upon <u>claims 1 and 4</u> and contain further limitations.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elias Desta whose telephone number is (571)-272-2214. The examiner can normally be reached on M-Th (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marc S. Hoff can be reached on (571)-272-2216. The

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fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elias Desta Examiner Art Unit 2857

- e.d.

June 22, 2006

MARC S. HOFF
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800